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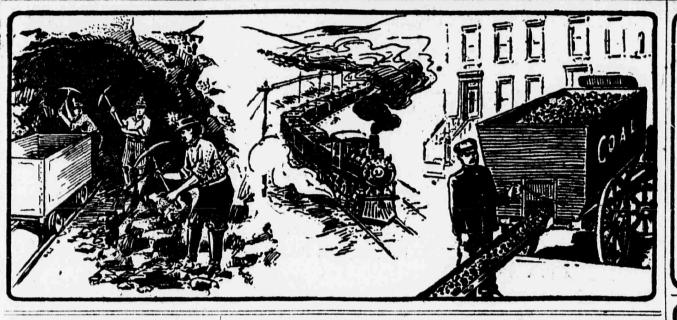


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is another famous mining locality. In in the spring. this district is included the Comstock Lode. It was there that the milling of been considerable talk of renewing opeing plant has recently been installed.

a hundred men and mines about five hundred tons of ore a week which runs from \$30 to \$40 a ton. The Chollar croppings produce nearly two hundred tons a day, but the ore is of poor quality and hardly pays expenses. Considerable mining is being done in the vicinity of Virginia City outside of the Comstock mines, mostly in the neighborhood of Silver City and toward Gold Hill.

The Kelsey copper fields, near Lake Osoroos, in Washington, is a district whose importance as a mining field is as yet somewhat problematical, but the indications are most promising. The area of the Borings of 100 feet in depth have shown zones of copper bearing sediment averaging 4,000 feet in legnth and 2,000 in width. Parrish Coal Co. The average assay has not yet been fully determined. Practically the same conditions were found at the depth of 100 feet as exist on the surface, the quantity of copper being constant. Instances of concentration in a minor degree were found giving ground for hope of concen tration on a larger scale at greater depths Washington's Coal.

The coal mines of Washington are growing in value, although the California market for their product has been somewhat impaired by recent discoveries of fuel oil in that State. The coal fields are in the central and western parts of the State and are five in number; the north Puget Sound fields, including mines in Skagit and Whatcom counties, the south Puget Sound fields in the counties of King and Pierce, the Puget Sound basin east of Seattle, the Roslyn field in Kittitas county and the southwestern field in Lewis and Cowlitz counties. The grades run from lignite to bituminous and coking coal, some natural coke and anthracite being

The coal bearing public lands of New Mexico were withdrawn from entry about two years ago pending an examination Geological Survey. In the last few months extensive coal fields in the vicinity of Raton have been examined and the coal found to be of high grade bituminous and coking quality. The town of Raton itself is built upon a shale whose dark color has led many to look for coal in it. This shale, known as the Pierre shale contains no coal, however.

Above the shale is a white sandstone, the Trinidad sandstone, which sometimes contains thin layers of carbonaceous shale and coal. The sandstone underlies the real carbonaceous beds. Near the mountains these are from 150 to 250 feet thick. The carbonaceous formation, however, was subject to a long period of erosion and consequently in some localities is entirely lacking, allowing much later geologic strata to rest directly upon the Trinadid sandstone.

The Raton coal formation is overlaid in many places with a conglomerate sandstone, which merges above into shales and finer sandstone containing beds of coal almost as valuable as the lower Raton beds. These upper sandstones and shales vary from a few feet to hundreds of feet in thickness.

In some localties, especially along the

NOTE

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are within the

heavy circle, right in the center

of the heart

of the smokeless belt

of West Virginia

There is

no better smokeless

coal mined

and south sides, though those on the activity, igneous rock has been intruded beds of heavy petroleum which impregnorth side have not yet been fully developed. into the coal beds, transforming the coal nated the neighboring rocks to the depth into coke and graphite. A detailed reveloped. The region around Virginia Ciry, Nev., port on the Raton fields is expected early asphalt. Limestone, sand or shale asphalt

Asphalt in Oklahoma. In Oklahoma the most extensive asphalt country. At one time eighty mills were found, practically all of it being rock of the product; there is a mill at Gilsonite, kept busy disposing of the output of the asphalt, that is, rock impregnated with one at the Brunswick mine near Dougherty Comstock mines. At present the mining asphalt rather than asphalt in the viscous and one at Ardmore. The rock has been C. and C. shaft, the Ward shaft and the Most of the deposits are in the southern Worth, Ardmore and Shawnes. Chollar outcrops, although there has part of the State. It is found along fault. The facts that transportation of the rations on a large scale and a large pump- earth's crust, formations on one side of that methods of refining the product on the fissure going down hundreds of feet the ground have proved unsatisfactory Two companies are at work in the C. in relation to the continuation of the same have so far prevented any extensive utili-

which have been located on both the north Red River Valley, owing to volcanic unknown depth the fissure has penetrated was formed according to the nature of the rock bordering the deposit.

Many of these deposits have been silver ore. was first practised in this deposits in the United States have been worked and several mills built to take care work is confined almost entirely to the state in which it is found in Trinidad. used for paving in Kansas City. Fort

lines; there has been a slipping of the rock involves considerable expense and and C. shaft, one of which employs about formations on the other side, and at some zation of the Oklahoma asphalt, but the

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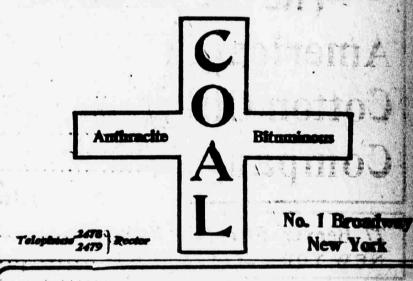
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